



SEQUENCE LISTING

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<120> Novel Polynucleotides and Polypeptides Encoded Thereby

<130> 15966-72, 76, 76A, 80, 112

<140> 09/672,665

<141> 2000-09-28

<150> 60/156,745

<151> 1999-09-30

<150> 60/158,942

<151> 1999-10-06

<150> 60/159,248

<151> 1999-10-13

<150> 60/169,344

<151> 1999-12-06

<150> 60/215,048

<151> 2000-06-29

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<170> PatentIn Ver. 2.0

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gaggaaaatg gggagcagga ggctgacaag gaggtagatg aagaagggga agaaagtggg 180
gaggaagagg agggaggaaga agaaggtgat ggtgaggaag aggatggaga tgaagaggaa 240
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 <213> Homo sapiens

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 1 5 10 15
 Leu Lys Glu Lys Lys Glu Val Val Lys Glu Ala Glu Asn Gly Arg Asp
 20 25 30
 Ala Pro Ala Asn Gly Asn Ala Asn Glu Glu Asn Gly Glu Gln Glu Ala
 35 40 45
 Asp Lys Glu Val Asp Glu Glu Gly Glu Glu Ser Gly Glu Glu Glu Glu
 50 55 60
 Glu Glu Lys Glu Gly Asp Gly Glu Glu Glu Asp Gly Asp Glu Glu Glu
 65 70 75 80
 Ala Glu Ser Ala Thr Gly Lys Arg Ala Ala Glu Asp Asp Glu Asp Asp
 85 90 95
 Asp Val Asp Thr Lys Lys Gln Lys Thr Asp Lys Asp Asp
 100 105

<210> 3
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 <212> DNA
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 gaggaagaag gtgatggtga ggaagaggat ggagatgaag atgagggagc tgagtcagct 240
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 accgacgagg atgaccagac ggcaaaaaag gaaaagttaa actaaaaaaa aaggccgccc 360
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 gggcccgcgc gccacccgtg ggcagtgccca cccgcagatg acacgcgctc tccaccaccc 480
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 <212> PRT
 <213> Homo sapiens

<400> 4

Met Ser Asp Ala Ala Val Asp Thr Ser Ser Glu Ile Thr Thr Glu Asp
1 5 10 15

Leu Lys Glu Lys Lys Glu Val Val Glu Glu Ala Glu Asn Gly Arg Asp
20 25 30

Ala Pro Ala His Gly Asn Ala Asn Glu Glu Asn Gly Glu Pro Glu Ala
35 40 45

Asp Asn Glu Val Asp Glu Glu Glu Glu Glu Gly Gly Glu Glu Glu Gly
50 55 60

Asp Gly Glu Glu Glu Asp Gly Asp Glu Asp Glu Gly Ala Glu Ser Ala
65 70 75 80

Thr Gly Lys Arg Ala Ala Glu Asp Asp Glu Asp Asn Asp Val Asp Thr
85 90 95

Gln Lys Gln Lys Thr Asp Glu Asp Asp Gln Thr Ala Lys Lys Glu Lys
100 105 110

Leu Asn

<210> 5

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<212> DNA

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gttgtggaag aggcagaaaa tggaagagac gcccctgcta acgggaatgc taatgaggaa 180
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gaggatgacc agacggcaaa aaaggaaaag ttaactaaa aaaaaaaaaag gccgccgtga 420
cctattcacc ctccacttcc cgtctcagaa tctaaacgtg gtcaccttcg agtagagagg 480
cccgcccgcc caccgtgggc agtgccaccc gcagatgaca cgcgctctcc accaccaaac 540
ccaaaccatg agaatttgca acaggggagg aaaaaagaac caaaacttcc aaggcctgct 600
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<213> Homo sapiens

<400> 6

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Leu Lys Glu Lys Lys Glu Val Val Glu Glu Ala Glu Asn Gly Arg Asp
20 25 30

Ala Pro Ala Asn Gly Asn Ala Asn Glu Glu Asn Gly Glu Gln Glu Ala
35 40 45

Asp Asn Glu Val Asp Glu Glu Glu Glu Gly Gly Glu Glu Glu Gly
50 55 60

Asp Gly Glu Glu Glu Asp Gly Asp Glu Asp Glu Glu Ala Glu Ser Ala
65 70 75 80

Thr Gly Lys Arg Ala Ala Glu Asp Asp Glu Asp Asn Asp Val Asp Thr
85 90 95

Lys Lys Gln Lys Thr Asp Glu Asp Asp Gln Thr Ala Lys Lys Glu Lys
100 105 110

Leu Asn

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<212> DNA

<213> Homo sapiens

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gaggaaaatg gggagccgga ggctgacaac gaggtagatg aagaagagga agaaggtggg 180
gaggaagaag gtgatggtga ggaagaggat ggagatgaag atgagggagc tgagtcagct 240
acgggcaagc gggcagctga agatgatgag gatgacgatg tcgataccca gaagcagaag 300
accgacgagg atgaccagac agcaaaaaag gaaaagttaa actaa 345

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<212> PRT

<213> Homo sapiens

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 20 25 30

Ala Pro Ala His Gly Asn Ala Asn Glu Glu Asn Gly Glu Pro Glu Ala
 35 40 45

Asp Asn Glu Val Asp Glu Glu Glu Glu Glu Gly Gly Glu Glu Glu Gly
 50 55 60

Asp Gly Glu Glu Glu Asp Gly Asp Glu Asp Glu Gly Ala Glu Ser Ala
 65 70 75 80

Thr Gly Lys Arg Ala Ala Glu Asp Asp Glu Asp Asp Asp Val Asp Thr
 85 90 95

Gln Lys Gln Lys Thr Asp Glu Asp Asp Gln Thr Ala Lys Lys Glu Lys
 100 105 110

Leu Asn

<210> 9

<211> 501

<212> DNA

<213> Homo sapiens

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 ggtgtgcccg accatgtcag acgcagccgt agacaccagc tccgaaatca ccaccaagga 180
 cttaaagaag aaggaagctg tggaggaagc ggaaaatgga agagacaccc ctgctaattg 240
 gaaggctaata gaggaaaatg gggagcagga agctgacaat gaagtagatg aagaagagga 300
 agaagggtggg gaggaagacg aggaggaaga agaaggcgat ggtgaggaag aggatggtga 360
 tgaagacgag gaagctgagt ccgctacggt caagcgggca gctgaagatg atgagaatga 420
 tgatgcctat accaagaagc agaagaccaa caaggatgac tagacagcaa aaaaggaaat 480
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<211> 109

<212> PRT

<213> Homo sapiens

<400> 10

Met Ser Asp Ala Ala Val Asp Thr Ser Ser Glu Ile Thr Thr Lys Asp

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 Pro Ala Asn Gly Lys Ala Asn Glu Glu Asn Gly Glu Gln Glu Ala Asp
 35 40 45
 Asn Glu Val Asp Glu Glu Glu Glu Glu Gly Gly Glu Glu Asp Glu Glu
 50 55 60
 Glu Glu Glu Gly Asp Gly Glu Glu Glu Asp Gly Asp Glu Asp Glu Glu
 65 70 75 80
 Ala Glu Ser Ala Thr Val Lys Arg Ala Ala Glu Asp Asp Glu Asn Asp
 85 90 95
 Asp Ala Tyr Thr Lys Lys Gln Lys Thr Asn Lys Asp Asp
 100 105

<210> 11
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 gaggaaaatg gggagccgga ggctgacaac gaggtagatg aagaagagga agaaggtggg 180
 gaggaagaag gtgatggtga ggaagaggat ggagatgaag atgagggagc tgagtcagct 240
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<210> 12
 <211> 114
 <212> PRT
 <213> Homo sapiens

<400> 12
 Met Ser Asp Ala Ala Val Asp Thr Ser Ser Glu Ile Thr Thr Glu Asp
 1 5 10 15
 Leu Lys Glu Lys Lys Glu Val Val Glu Glu Ala Glu Asn Gly Arg Asp
 20 25 30
 Ala Pro Ala His Gly Asn Ala Asn Glu Glu Asn Gly Glu Pro Glu Ala
 35 40 45

Asp Asn Glu Val Asp Glu Glu Glu Glu Gly Gly Glu Glu Glu Gly
 50 55 60

Asp Gly Glu Glu Glu Asp Gly Asp Glu Asp Glu Gly Ala Glu Ser Ala
 65 70 75 80

Thr Gly Lys Arg Ala Ala Glu Asp Asp Glu Asp Asn Asp Val Asp Thr
 85 90 95

Gln Lys Gln Lys Thr Asp Glu Asp Asp Gln Thr Ala Lys Lys Glu Lys
 100 105 110

Leu Asn

<210> 13
 <211> 324
 <212> DNA
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 gaagaagatg gggacctgca gtgctgtgt gtgaagacca cctcccaggt ccgtcccagg 180
 cacatcacca gctggagggt gatcaaggcc ggacccact gccccactgc ccaactgatg 240
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 aggattaaga aacttttgaa gagt 324

<210> 14
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Phe Leu Gly Leu Val Leu Leu Ser Leu Pro Ser Ser Ser Leu Thr Leu
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Ser Ile Ser Pro Ser Ala Glu Ala Glu Glu Asp Gly Asp Leu Gln Cys
 35 40 45

Leu Cys Val Lys Thr Thr Ser Gln Val Arg Pro Arg His Ile Thr Ser
 50 55 60

Leu Glu Val Ile Lys Ala Gly Pro His Cys Pro Thr Ala Gln Leu Met
 65 70 75 80

Ala Thr Leu Lys Asn Gly Arg Lys Ile Cys Leu Asp Leu Gln Ala Pro
 85 90 95

Leu Tyr Lys Lys Arg Ile Lys Lys Leu Leu Lys Ser
 100 105

<210> 15
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 <212> DNA
 <213> Homo sapiens

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 tggactaaac ttcagcattc ccttgacact gcccttcgca gagcccgag cgccccggca 180
 gcggcgatag ctgcacgcgt ggcggggcag acccgcaaca ttactgtgga ccccaggctg 240
 tttaaaaagc ggcgactccg ttcaccccggt gtgctgttta gcacccagcc tccccgtgaa 300
 gctgcagaca ctcaggatct ggacttcgag gtcggtggtg ctgccccctt caacaggact 360
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 gacagtgtca gcgtgtgggt tggggataag accaccgcca cagacatcaa gggcaaggag 480
 gtgatggtgt tgggagaggt gaacattaac aacagtgtat tcaaacagta cttttttgag 540
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 tggaaactcat attgtaccac gactcacacc tttgtcaagg cgctgaccat ggatggcaag 660
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 gctgtgagaa gagcctga 738

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 <211> 241
 <212> PRT
 <213> Homo sapiens

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Gln Ala Glu Pro His Ser Glu Ser Asn Val Pro Ala Gly His Thr Ile
 20 25 30

Pro Gln Ala His Trp Thr Lys Leu Gln His Ser Leu Asp Thr Ala Leu
 35 40 45

Arg Arg Ala Arg Ser Ala Pro Ala Ala Ala Ile Ala Ala Arg Val Ala
 50 55 60

Gly Gln Thr Arg Asn Ile Thr Val Asp Pro Arg Leu Phe Lys Lys Arg
 65 70 75 80

Arg Leu Arg Ser Pro Arg Val Leu Phe Ser Thr Gln Pro Pro Arg Glu
 85 90 95

Ala Ala Asp Thr Gln Asp Leu Asp Phe Glu Val Gly Gly Ala Ala Pro
 100 105 110

Phe Asn Arg Thr His Arg Ser Lys Arg Ser Ser Ser His Pro Ile Phe
 115 120 125

His Arg Gly Glu Phe Ser Val Cys Asp Ser Val Ser Val Trp Val Gly
 130 135 140

Asp Lys Thr Thr Ala Thr Asp Ile Lys Gly Lys Glu Val Met Val Leu
 145 150 155 160

Gly Glu Val Asn Ile Asn Asn Ser Val Phe Lys Gln Tyr Phe Phe Glu
 165 170 175

Thr Lys Cys Arg Asp Pro Asn Pro Val Asp Ser Gly Cys Arg Gly Ile
 180 185 190

Asp Ser Lys His Trp Asn Ser Tyr Cys Thr Thr Thr His Thr Phe Val
 195 200 205

Lys Ala Leu Thr Met Asp Gly Lys Gln Ala Ala Trp Arg Phe Ile Arg
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Ile Asp Thr Ala Cys Val Cys Val Leu Ser Arg Lys Ala Val Arg Arg
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<210> 17

<211> 345

<212> DNA

<213> Homo sapiens

<400> 17

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 aatgctaattg aggaaaaatgg ggagcaggag gctgacaatg aggtagacga agaagaggaa 180
 gaaggtgggg aggaagagga ggaggaagaa gaaggtgatg gtgaggaaga ggatggagat 240
 gaagatgagg aagctgagtc agctacgggc aagcgggcag ctgaagatga tgaggatgac 300

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345

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<211> 110
<212> PRT
<213> Homo sapiens

<400> 18
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Leu Lys Glu Lys Lys Glu Val Val Glu Glu Ala Glu Asn Gly Arg Asp
20 25 30
Ala Pro Ala Asn Gly Asn Ala Asn Glu Glu Asn Gly Glu Gln Glu Ala
35 40 45
Asp Asn Glu Val Asp Glu Glu Glu Glu Glu Gly Gly Glu Glu Glu Glu
50 55 60
Glu Glu Glu Glu Gly Asp Gly Glu Glu Glu Asp Gly Asp Glu Asp Glu
65 70 75 80
Glu Ala Glu Ser Ala Thr Gly Lys Arg Ala Ala Glu Asp Asp Glu Asp
85 90 95
Asp Asp Val Asp Thr Lys Lys Gln Lys Thr Asn Lys Asp Asp
100 105 110

<210> 19
<211> 350
<212> DNA
<213> Homo sapiens

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aatgctaata aggaaaatgg ggagcaggag gctgacaatg aggtagacca agaagaggaa 180
gaaggtgggg aggaagagga ggaggaagaa gaaggtgatg gtgaggaaga ggatggagat 240
gaagatgagg aagctgagtc acctacgggc aaccgggcag ctgaagatga tgaggatgac 300
gatgtcaata ccaaggaagg cggaaggacc aaccaaggga tgactagaca 350

<210> 20
<211> 113
<212> PRT
<213> Homo sapiens

<400> 20

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1 5 10 15

Leu Lys Glu Lys Lys Glu Val Val Glu Glu Ala Glu Asn Gly Arg Asp
20 25 30

Ala Pro Ala Asn Gly Asn Ala Asn Glu Glu Asn Gly Glu Gln Glu Ala
35 40 45

Asp Asn Glu Val Asp Gln Glu Glu Glu Glu Gly Gly Glu Glu Glu Glu
50 55 60

Glu Glu Glu Glu Gly Asp Gly Glu Glu Glu Asp Gly Asp Glu Asp Glu
65 70 75 80

Glu Ala Glu Ser Pro Thr Gly Asn Arg Ala Ala Glu Asp Asp Glu Asp
85 90 95

Asp Asp Val Asn Thr Lys Glu Gly Gly Arg Thr Asn Gln Gly Met Thr
100 105 110

Arg

<210> 21

<211> 20

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Chemically
Synthesized

<400> 21

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20

<210> 22

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Chemically
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accagctccg aaatcaccac cgag

24

<210> 23

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Chemically
Synthesized

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24

<210> 24

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Chemically
Synthesized

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24

<210> 25

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Chemically
Synthesized

<400> 25

cctcatcatc ttcagctgcc cgctt

25

<210> 26

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Chemically
Synthesized

<400> 26

tctgcttctt ggtatcgaca tcac

24

<210> 27

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Chemically
Synthesized

<400> 27

agatgtcaga cgcagccgta

20

<210> 28

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Chemically
Synthesized

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cagctccgaa atcaccaccg aggac

25

<210> 29

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Chemically
Synthesized

<400> 29

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24

<210> 30

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Chemically
Synthesized

<400> 30

tgccctatacc aagaagcaga ag

22

<210> 31

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Chemically
Synthesized

<400> 31

ccaacaagga tgactagaca gcaaaa

26

<210> 32

<211> 22

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Chemically
Synthesized

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tgaataggtc accctcctaa ca

22